10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-GPR174 Antibody
Rabbit polyclonal antibody to GPR174
Catalog # AP61048

Specification

Anti-GPR174 Antibody - Product Information

Application	**WB, IF**
Primary Accession	Q9BXC1
Other Accession	Q3U507
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**38503**

Anti-GPR174 Antibody - Additional Information

Gene ID 84636

Other Names
Probable G-protein coupled receptor 174

Target/Specificity
Recognizes endogenous levels of GPR174 protein.

Dilution
WB~~WB (1/500 - 1/1000), IF/IC (1/100 - 1/500)
IF~~WB (1/500 - 1/1000), IF/IC (1/100 - 1/500)

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-GPR174 Antibody - Protein Information

Name GPR174

Function
G-protein-coupled receptor of lysophosphatidylserine (LysoPS) that plays different roles in immune response (PubMed:36823105). Plays a negative role in regulatory T-cell accumulation and homeostasis. Under inflammatory conditions where LysoPS production increases, contributes to the down-regulation of regulatory T-cell activity to favor effector response. Mediates the suppression of IL-2 production in activated T-lymphocytes leading to inhibition of growth, proliferation and differentiation of T-cells. Mechanistically, acts via G(12)/G(13)- containing heterotrimeric G proteins to trigger elevated cyclic AMP levels and protein kinase A/PKA activity,

which may in turn act to antagonize proximal TCR signaling. Plays an important role in the initial period of sepsis through the regulation of macrophage polarization and pro- and anti-inflammatory cytokine secretions. Upon testosterone treatment, acts as a receptor for CCL21 and subsequently triggers through G(q)-alpha and G(12)/G(13) proteins a calcium flux leading to chemotactic effects on activated B-cells. Signals via GNA13 and PKA to promote CD86 up-regulation by follicular B-cells.

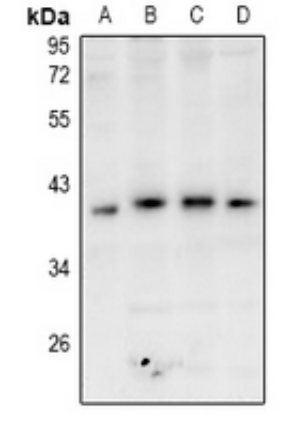
Cellular Location
Cell membrane; Multi-pass membrane protein.

Anti-GPR174 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-GPR174 Antibody - Images



Western blot analysis of GPR174 expression in BV2 (A), PC12 (B), A549 (C), Hela (D) whole cell lysates.

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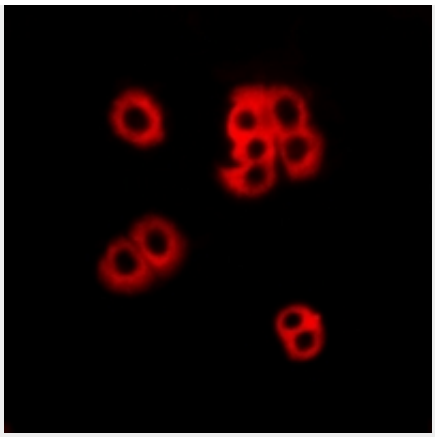

Immunofluorescent analysis of GPR174 staining in LOVO cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with Alexa Fluor 647-conjugated secondary antibody (red) in PBS at room temperature in the dark.

Anti-GPR174 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human GPR174. The exact sequence is proprietary.